

Patent Claims

- 1) Imprinted sheet material for container coverings, characterized in that onto the outside of a carrier sheet a thermoplastic adhesion promoter is applied, subsequently the appropriate imprint is applied, whereupon the imprint in those regions, in which heat protection is required, a lacquer of similar composition is applied by means of a register-controlled method, a portion of the curing agent comprised in the lacquer or applied separately, migrates into the printing ink or the adhesion promoter, respectively, leading to cross-linking and/or on the side facing the fill good an adhesion promoter is applied and thereon an imprint, whereupon onto the printing ink an adhesion promoter is applied and in the above defined regions a heat-seal lacquer.
- 2) Sheet material as claimed in claim 1, characterized in that each imprint is applied utilizing the digital print process.
- 3) Sheet material as claimed in claim 2, characterized in that the imprint is applied utilizing the Indigo process.
- 4) Sheet material as claimed in one of claims 1 to 3, characterized in that onto the sheet material concurrent with the imprint are printed registration and control lines.
- 5) Sheet material as claimed in one of claims 1 to 4, characterized in that before the adhesion promoter is applied, registration and control lines are printed onto the material.
- 6) Sheet material as claimed in one of claims 1 to 5, characterized in that the adhesion promoter is applied with register and gage-pin precision in those regions, onto which subsequently the imprint is applied.
- 7) Sheet material as claimed in one of claims 1 to 6, characterized in that the overcoat lacquer is heat stable.

- 8) Sheet material as claimed in one of claims 1 to 7, characterized in that the overcoat lacquer is comprised of an ethylene acrylate copolymer dispersion with an average molecular weight of approximately 22,000 to 150,000 or a mixture of this dispersion with a polyester, polyvinyl acetate, polyacrylate or polyamide in a mixing ratio of 9:1 to 1:1 with respect to the ethylene acrylate copolymer.
- 9) Sheet material as claimed in one of claims 1 to 8, characterized in that the overcoat lacquer comprises 0.5% - 10% of a curing agent.
- 10) Sheet material as claimed in one of claims 1 to 9, characterized in that the curing agent is applied after the overcoat lacquer has been applied.
- 11) Sheet material as claimed in one of claims 1 to 10, characterized in that the curing agent is a polyfunctional aziridine or a melamine resin.
- 12) Sheet material as claimed in one of claims 1 to 11, characterized in that the overcoat lacquer, and optionally the curing agent, is applied in register and gage-pin precision with respect to the previously applied imprint.
- 13) Sheet material as claimed in one of claims 1 to 12, characterized in that the thermoplastic adhesion promoter is pigmented.
- 14) Sheet material as claimed in one of claims 1 to 13, characterized in that, following the heat-seal process or the packaging process, the sheet material is imprintable.
- 15) Use of the sheet material as claimed in one of claims 1 to 14, optionally after it is cut to size and/or stamped, as container covering for food and nutritional items, pharmaceutical and/or cosmetic products, cleaning agents, chemicals and the like.